

Appendix 7: Blood Sampling Protocol

Blood Collection Procedure for Jasper County, Missouri, Superfund Site Follow-up Childhood Lead Exposure Study, 2000

1. Have the following items on hand and available for use:
 - Tourniquet
 - Alcohol disinfectant swabs (individually wrapped)
 - Gauze bandages (sterile, individually wrapped)
 - 21g or 22g vacutainer needle or 23g butterfly
 - Vacutainer needle holder
 - 2 ml draw purple top tube with Hemagard cap
 - Bandaid
 - Sharps disposal container for used needles
 - Ice or Refrigerator for storage
 - Gloves
2. Use universal blood-borne pathogen precautions during all procedures. Select the appropriate size needle and attach to the Vacutainer needle holder.
3. Tie the tourniquet onto the upper arm so that it can be quickly released with one hand.
4. Swab the venipuncture area with an alcohol pad.
5. Wipe off excess alcohol with the gauze bandages. Allow to air dry for 5 - 10 seconds.
6. Puncture the vein with the needle.
7. Insert a purple top tube into the barrel of the vacutainer needle holder and push until blood enters the tube. The tube will draw only 2 mls of blood (gray fill line on the paper label).
8. Remove the tourniquet; withdraw the needle and dispose of in the sharps container.
9. Place pressure on the venipuncture site for a few minutes with a gauze pad. Cover the venipuncture site with a bandaid.
10. If mixing by hand rotate the tube at least 5-10 times to insure good distribution of anticoagulant throughout the blood.
11. Place an ID label on the vacutainer tube.
12. Record the sample number by placing a label on the collection log.
13. Place samples in cardboard boxes that are provided. Refrigerate until shipment to CDC can be made.
14. When specimens are ready to be shipped, place each box inside a zip bag along with some absorbent material. Seal the bags and place inside the Styrofoam shipping container. Include a copy of the two specimen collection log forms with the specimens. Keep a copy of the forms for the health departments files. Add several ice packs that have been previously frozen.
15. Ship samples by overnight carrier in insulated containers along with ice packs so that the temperature can be maintained during the shipping process. Samples should be shipped to the following address so that they will arrive on a normal working day (Monday - Friday, non-Federal Holidays). Labels with the address below have been provided for mailing.

Charles Dodson
Centers for Disease Control and Prevention
Bldg 17 Loading Dock
4770 Buford Highway, NE
Atlanta, GA 30341-3724

16. Please call (770) 488-4305 on the day the shipment is made. Also, if any questions arise, please call the above number.

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**JASPER COUNTY EXPOSURE STUDY, 2000
SPECIMEN COLLECTION AND SHIPPING LOG
CDC STUDY NO: _____**

DATE SHIPPED: _____
SHIPPED BY: _____
SIGNATURE: _____

DATE RECEIVED: _____
RECEIVED BY: _____
SIGNATURE: _____

TOTAL NO. SPECIMENS SHIPPED:

B1=BLOOD METALS

COMMENTS: _____

SHIPPING ADDRESS: **CHARLES DODSON
CENTERS FOR DISEASE CONTROL
BUILDING 17 LOADING DOCK
4770 BUFORD HIGHWAY NE
ATLANTA, GA 30341
TEL: 770.488.4305/FAX: 770.488.4541**

PARTICIPANT ID. LABEL	SPEC TYPE	COMMENTS	PARTICIPANT ID. LABEL	SPEC TYPE	COMMENTS
	R1			R1	
	R1			R1	
	R1			R1	
	R1			R1	
	R1			R1	
	R1			R1	
	R1			R1	
	R1			R1	
	R1			R1	
	R1			R1	